

Applicant Name Goodan-Keil County Water District
Project Name Goodan-Keil Water System Improvements

Project Abstract

The Goodan-Keil subdivision was developed in 1978. It is approximately four miles west of Missoula, north of the junction of Interstate 90 and Airport Way. In August 2004, the Goodan-Keil residents elected to form the Goodan-Keil County Water District to oversee the provision of water service. Currently 81, homes are on the public water system, with a maximum build-out of 87. There have been two significant improvements to the water system: booster station (1999), and construction of a replacement well (2004). The purpose of these improvements was to enhance the district's water supply.

The Goodan-Keil public water system has serious deficiencies that prevent an adequate quantity of water from being delivered to homeowners. Very low pressures are regularly experienced during the irrigation season and the potential for negative pressures is high. One fundamental problem is that the existing storage tank is grossly undersized with only 31% of the district's average daily demand plus minimum fire demand. Next, the booster station frequently fails due to its reliance on an inefficient phase converter for power. Also, the well field piping and supply line from the well field to the booster station were poorly constructed and have ruptured on numerous occasions in the past five years. Finally, the distribution system does not have enough hydrants to provide adequate coverage for all homes within the district. The district is also interested in replacing all the original water meters with newer, remote-read meters.

The proposed \$1,079,500 project would provide for a new 150,000-gallon concrete storage tank, extension of a three-phase conductor and conversion of the booster station to three-phase power, 2,000 lineal feet of new six-inch" diameter supply piping, 270 lineal feet of new 2-inch diameter well field piping, seven new fire hydrants and valves, minor wellhead protection improvements, new meters for all 81 users, and an automated meter reading/billing system. The improvements project would effectively correct the current problems with the water system.